

19 Feb

Ship ASAP

Work Order ID 140954

140954

Page 1

January 26, 2016 11:18:06 AM

Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: AS350 Cable Cutter System
Start Date: 1/26/2016 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 3/7/2016 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: 34A Date: 20160126 Tooling: _____ Date: _____ Run Start *NR1*
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
646.4000	B C <u>400</u>

100	Document Control	0.00
100	DOCUMENT CONTROL	
DC	Memo	0.00
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 646.4001	

DAS
27
9-89

MAR 17 2016

110	Pick Kit	0.00
110		
Packaging	Memo	0.00
Packaging		

DAS
28
9-89

DAS
28
9-89

FEB 09 2016

120	QC4- 100% Inspect kits for completeness	0.00
120		
QC	Memo	0.00
Quality Control		

DAS
27
9-89

MAR 17 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
OTHER : ☐									

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140954

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Item ID: 646.4001 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: AS350 Cable Cutter System
Start Date: 1/26/2016 Start Qty: 1.00 *1* Cust Item ID:
Required Date: 3/7/2016 Req'd Qty: 1.00 *1* Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start *NR1*
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp Stamp
130	Packaging	0.00				BAS 27 9-39			
130	Memo	0.00							
Packaging	Identify and pack for shipping as per PPP 646.4001								
Packaging	Location: _____								
140	QC21- Final Inspection - Work Order Release	0.00							
140	Memo	0.00							
QC									
Quality Control									

Sold

MAR 17 2016

MAR 17 2016

MAR 17 2016

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By	
								Lead hand / Supervisor Approval Verification	
								QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐			
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐			
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐			
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐			
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐			
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐			
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐			
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐			
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐			
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐			
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER : _____						
Misidentified ☐	☐	Past Due ☐							

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1 40954

646 4001

Required Date: 3/7/2016

Required Qty: 1.00

IPP REV:A 12.10.23 NEW ISSUE DD VERF:JLM
IPP REV:B 15.01.08 AS PER DWG REV.B DD VERF:JLM IPP
REV:C 16.01.07 AS PER DWG REV.C DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
646.3301 *646.3301* Upper Cutter Assy		Manufactured	No			110	Each	4.0000	1	1			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				cck018		4							
				136497		2							
				140115		2							
646.3001 *646.3001* Lower Cutter Assy		Manufactured	No			110	Each	0.0000	1	1			
646.2910 *646.2910* Deflector		Manufactured	No			110	Each	2.0000	1	1			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				CCK050		2							
				136136		2							
646.3810 *646.3810* Bracket		Manufactured	No			110	Each	0.0000	2	2			
646.3510 *646.3510* Strut		Manufactured	No			110	Each	0.0000	1	1			
646.3511 *646.3511* Strut		Manufactured	No			110	Each	0.0000	1	1			

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Work Order ID: 140954

140954

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

647.0112

Manufactured No

110 Each

55.0000

2

2

6

9-89

DAS

28

9-89

647 0112

Strut Bracket

Location

Loc Qty

Loc Code

CCK107

55

M130388

55

2

DAS

6

9-89

DAS

28

9-89

647.7703

Manufactured No

110 Each

8.0000

2

2

DAS

6

9-89

DAS

28

9-89

647 7703

Strut Assembly

Location

Loc Qty

Loc Code

CCK114

8

139295

8

138

DAS

6

9-89

DAS

28

9-89

NAS1149F0332P

Purchased No

110 Each

2,571.000

138

138

DAS

6

9-89

DAS

28

9-89

NAS1149F0332P

Washer

Location

Loc Qty

Loc Code

GA

396

m133709

396

ST260a

1500

m134055

1500

ST262

675

m133709

4

m133938

671

DAS
27
9-89

DAS
27
9-89

124555

FEB 29 2016

DAS
6
9-89

DAS
28
9-89

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Work Order ID: 140954

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140954

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased No

110 Each

2,723.000

61

61

MS21042L3

Nut

**

DAS
6
9-89
28
9-89

FEB 29 2016

Location

Loc Qty

Loc Code

CCK007

2000

m134039

2000

FP001

163

m133790

163

GA

195

m133790

195

ST304

365

m133790

365

646.3110

Manufactured No

110

Each

2.0000

1

1

646 3110

Channel

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck020

2

136492

2

646.3710

Manufactured No

110

Each

9.0000

1

1

646 3710

Doubler

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

CCK002

9

127550

9

646.3210

Manufactured No

110

Each

4.0000

1

1

646 3210

Support

**

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck020

4

136217

4

DAS
21
9-89

MAR 08 2016

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Work Order ID: 140954

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140954

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

646.3713

Manufactured No

110 Each

12.0000

1

646 3713

Gusset

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

12

138216

12

110 Each

231.0000

5

MS24694-S51

Purchased No

MS24694-S51

Screw

DAS
27
9-89

Location

Loc Qty

Loc Code

ST284

231

m130928

31

m133990

200

110 Each

36.0000

1

AN3-13A

Purchased No

AN3-13A

Bolt

DAS
27
9-89

Location

Loc Qty

Loc Code

CA

3

m129682

3

GA

20

m127070

20

ST349

13

m131305

13

DAS
6
28
9-89

DAS
6
28
9-89

DAS
6
28
9-89

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Page 5

Work Order ID: 140954

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140954

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-4A Purchased No

110 Each 332.0000 10 10

AN3-4A

Bolt

**

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

over003

250

m133990

250

ST350

82

m129682

10

m133694

72

10

CR3213-5-3 Purchased No

110 Each 116.0000 14 14

CR3213-5-3

Cherry Rivet

**

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

ST319

116

m130388

16

m132763

100

14

MS20470AD5-5.5 Purchased No

110 Each 1,070.000 8 8

MS20470AD5-5 5

Rivet

**

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

ST309

1070

123425

79

m134063

991

8

646.3711 Manufactured No

110 Each 20.0000 1 1

646 3711

Clip

**

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

20

120626

20

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Page 6

Work Order ID: 140954

140954

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

646.3712

Manufactured No

110 Each

10.0000

1

646 3712

Clip

**

DAS

6

9-89

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

cck105

10

120630

10

646.3811

Manufactured No

110 Each

6.0000

1

646 3811

Radius Block

**

DAS

6

9-89

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

CCK106

6

122938

6

AN3-6A

Purchased No

110 Each

402.0000

2

AN3-6A

Bolt

**

DAS

6

9-89

DAS

28

9-89

DAS
27
9-89

Location

Loc Qty

Loc Code

over003

300

M133932

125

M134055

175

ST306

2

M131305

2

ST349

100

M133561

100

MS24694-S55

Purchased No

110 Each

129.0000

MS24694-S55

Screw

**

DAS
6
9-89

DAS

28

9-89

FEB 29 2016

DAS
27
9-89

Location

Loc Qty

Loc Code

ST283

129

m132803

46

m133938

83

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Picklist Print

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Work Order ID: 140954

140954

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

646.3610 Manufactured No

110 Each 0.0000

646 3610

Filler

646.3714

Manufactured No

110 Each 2.0000

646 3714

Gusset

Location

Loc Qty

Loc Code

cck105

2

120632

2

MS20470AD5-6

Purchased No

110 Each 960.0000

MS20470AD5-6

RIVET

Location

Loc Qty

Loc Code

CCK004

890

124089

890

ST309

70

105433

70

646.3812

Manufactured No

110 Each 0.0000

646 3812

Gusset Bracket

AN3-3A

Purchased No

110 Each 267.0000

AN3-3A

Bolt

Location

Loc Qty

Loc Code

ST350

267

m131624

101

m133833

66

m134034

100

**

**

**

**

**

DAS
6
9-89

DAS
28
9-89

DAS
6
9-89

DAS
28
9-89

DAS
6
9-89

DAS
28
9-89

DAS
6
9-89
FEB 27 2016

DAS
6
9-89
DAS
28
9-89

FEB 29 2016

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Work Order ID: 140954

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140954

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

646.3813

Manufactured No

110 Each

5.0000

1

DAS 6 9-89

646 3813

Strut Bracket

**

1400119

DAS 28 9-89

Location

Loc Qty

Loc Code

CCK106

5

127453

1

138267

4

MS20470AD5-7

Purchased No

110 Each

506.0000

3

MS20470AD5-7

Rivet

**

DAS 6 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST309

506

123425

506

MS21047-3

Purchased No

110 Each

225.0000

18

MS21047-3

Nut Plate

**

DAS 6 9-89

DAS 28 9-89

Location

Loc Qty

Loc Code

ST301

225

m133790

25

m133938

100

m134055

100

CCR264SS3-02

Purchased No

110 Each

352.0000

36

CCR264SS3-02

Rivet, Cherry

**

134134 x 22

DAS 6 9-89

FEB 29 2016

DAS 28 9-89

Location

Loc Qty

Loc Code

ST321

352

M133790

152

M134023

200

DAS 27 9-89

14

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Page 9

Work Order ID: 140954

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140954
646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-5A Purchased No

AN3-5A

Bolt

110 Each 222.0000 2 2

**

DAS 6 28
9-89 9-89

Location	Loc Qty	Loc Code
FP001	24	
m133686	24	
ST350	198	
m133686	78	
m134055	120	

646.3715 Manufactured No

646.3715

Strut Doubler

110 Each 17.0000 2 2

**

FEB 29 2016

138365

DAS 28
9-89

Location	Loc Qty	Loc Code
cck105	17	
139892	17	

MS27039-1-12 Purchased No

MS27039-1-12

Screw

110 Each 185.0000 6 6

**

DAS 6 28
9-89 9-89

Location	Loc Qty	Loc Code
over006	100	
m133988	100	
ST280	85	
m133483	85	

646.3716 Manufactured No

646.3716

Gauge Bracket

110 Each 6.0000 1 1

**

FEB 29 2016

140845

DAS 28
9-89

Location	Loc Qty	Loc Code
cck105	6	
136410	6	

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Work Order ID: 140954

140954

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

MS20426AD5-7

Purchased

No

110

Each

1,057.000

2

MS20426AD5-7

RIVET

DAS

6 DAS

9-89 28

9-89

Location

Loc Qty

Loc Code

ST311

1057

M132767

14

M133922

1043

MS24694-S54

Purchased

No

110

Each

156.0000

2

MS24694-S54

SCREW

DAS

6 DAS

9-89 28

9-89

Location

Loc Qty

Loc Code

ST284

156

m133134

56

m134063

100

MS27039-1-21

Purchased

No

110

Each

371.0000

4

MS27039-1-21

Screw

DAS

6 DAS

9-89 28

9-89

Location

Loc Qty

Loc Code

over006

241

m127904

241

ST280

130

m127904

130

MS27039-1-20

Purchased

No

110

Each

170.0000

2

MS27039-1-20

Screw

DAS

6 DAS

9-89 28

9-89

Location

Loc Qty

Loc Code

ST280

170

124326

170

DAS

27

9-89

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Work Order ID: 140954

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140954

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-19

Purchased

No

110

Each

333.0000

22

22

MS27039-1-19

Screw

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

over006

250

m133932

100

m134055

150

ST280

83

m133938

83

FEB 2 2 2016

646.3717

Manufactured

No

110

Each

1.0000

1

646 3717

Doubler

**

136175

DAS
6
9-89

DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

1

120633

1

646.3718

Manufactured

No

110

Each

11.0000

2

646 3718

Custom Washer

**

140788

DAS
6
9-89
DAS
28
9-89

Location

Loc Qty

Loc Code

cck105

11

136223

11

646.3719

Manufactured

No

110

Each

17.0000

2

646 3719

Doubler

**

138311

DAS
6
9-89

Location

Loc Qty

Loc Code

cck105

17

17

FEB 27 2016

DAS
28
9-89

DAS
27
9-89

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Work Order ID: 140954

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140954

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-1-10

Purchased

No

110

Each

146.0000

2

2

MS27039-1-10

SCREW

**

134166

BAS
27
9-89

Location

Loc Qty

Loc Code

CA

41

m128635

41

GA

50

m129541

50

ST280

55

m132677

55

AN3-11A

Purchased

No

110

Each

173.0000

10

10

AN3-11A

Bolt

**

BAS
27
9-89

Location

Loc Qty

Loc Code

over003

100

m133992

100

ST349

73

m133561

73

600.0990

Purchased

No

110

Each

23.0000

1

1

6000990

Magnabond 6398 Part A

**

15/07/2016

BAS
27
9-89

Location

Loc Qty

Loc Code

CA2

12

M133800

12

PKG

11

M133938

11

DAS
6 28
9-89 9-89

DAS
28
DAS 9-89
6
9-89

FEB 2 9 2016

60-6
9
DAS

FEB 2 9 2016

Picklist Print

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Page 13

Work Order ID: 140954

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140954

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

600.0991 Purchased No

110 Each 23.0000 1

600 0991

MAGNOBOND 6398 PART B

**

Location

Loc Qty

Loc Code

CA2

12

m133800

12

PKG

11

m133938

11

68-6 DAS
9 28
9-89

600.1012 Purchased No

110 Each 23.0000 1

600 1012

Sealant PR1425B2 (#654 sem)

**

Location

Loc Qty

Loc Code

cck017

22

m133800

6

m133938

8

m133992

8

cck018

1

m131364

1

10/30/2015

**

68-6
9
9-89
DAS
28
9-89

600.0129 Purchased No

110 f 493.0000 8

600 0129

VHB TAPE 75935A651

**

Location

Loc Qty

Loc Code

CCK095

493

m127920

293

m131311

200

DAS
27
9-89

DAS
6
9-89
DAS
28
9-89

600.1013 Purchased No

110 Each 845.0000 5

600 1013

021200-3M TAPE PRIMER 94 PRIMER 24216

**

Location

Loc Qty

Loc Code

CCK095

845

m131145

845

6/15/2016

DAS
27

DAS
6
9-89
DAS
28
9-89

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Work Order ID: 140954

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140954

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

AN3-12A

Purchased

No

110

Each

85.0000

2

2

AN3-12A

Bolt

**

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

GA

2

m129682

2

ST349

83

m133064

16

m133234

67

2

MS27039-1-16

Purchased

No

110

Each

294.0000

24

24

MS27039-1-16

Screw

**

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

ST280

294

m131317

8

mm134023

286

24

650.9201

Manufactured

No

110

Each

11.0000

2

2

650.9201

Eyelet Bracket Assembly

**

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

cck127

11

136606

11

140179

AN44-5A

Purchased

No

110

Each

24.0000

2

2

AN44-5A

Eyebolt

**

DAS
6 28
9-89 9-89

Location

Loc Qty

Loc Code

ST339

24

m133790

12

m133990

12

2

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Page 16

Work Order ID: 140954

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140954

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

AN665-34R

Purchased

No

110

Each

46.0000

2

2

AN665-34R

Clevis

BAS
27
9-89

Location

Loc Qty

Loc Code

ST330

46

M133523

26

M134029

10

st330

10

DAS
6
8-89

DAS
28
9-89

AN4C7A

Purchased

No

110

Each

104.0000

2

2

AN4C7A

BOLT

BAS
27
9-89

Location

Loc Qty

Loc Code

OVER002

20

m133523

20

ST340

14

m133363

14

ST345

70

m133790

20

m133990

50

DAS
6
8-89

DAS
28
9-89

NAS1149F0432P

Purchased

No

110

Each

1,588.000

4

4

NAS1149F0432P

WASHER

BAS
27
9-89

Location

Loc Qty

Loc Code

ST260a

1000

M133990

1000

ST262

463

M133938

463

st268

125

M132677

125

FEB 09 2016
DAS
6
8-89

DAS
28
9-89

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Page 16

Picklist Print

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Page 17

Work Order ID: 140954

Parent Item: 646.4001

Parent Item Name: AS350 Cable Cutter System

140954

646 4001

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

MS21042L4

Purchased

No

110

Each

3,610.000

2

2

MS21042L4

Locknut

**

Location

Loc Qty

Loc Code

FP001

41

m133363

41

GA

26

m127813

26

ST007

1500

m134055

1500

ST303

1946

m133769

1946

ST305

97

m130922

97

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

AN316C4R

Purchased

No

110

Each

77.0000

2

2

AN316C4R

NUT

**

Location

Loc Qty

Loc Code

ST331

77

m133234

43

m133523

34

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

MS21042-3

MS21042L3

Purchased

No

110

Each

18.0000

2

2

MS21042-3

Nut / use MS21042L3

**

134039

Location

Loc Qty

Loc Code

ST304

18

M129682

18

DAS
6
9-89
DAS
28
9-89

DAS
27
9-89

Picklist Print

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Page 18

Work Order ID: 140954

140954

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

MS27039-08-13

Purchased

No

110

Each

316.0000

2

2

MS27039-08-13

Screw

BAS
27
9-89

Location

Loc Qty

Loc Code

ST278

316

124326

316

110

Each

33.0000

2

2

MS21042-08

MS21042L08

Purchased

No

MS21042-08

USE MS21042L08

BAS
27
9-89

Location

Loc Qty

Loc Code

ST304

25

122815

25

ST306

8

m130388

8

110

Each

3,803.000

4

4

NAS1149FN832P

Purchased

No

NAS1149FN832P

Washer

BAS
27
9-89

Location

Loc Qty

Loc Code

GA

2231

M133316

16

M133769

2215

ST262

1572

M133709

1572

110

Each

70.0000

5

5

MS24693-C278

Purchased

No

MS24693-C278

Screw

BAS
27
9-89

Location

Loc Qty

Loc Code

ST287

70

m133998

70

DAS

6

9-89

DAS

28

9-89

DAS

6

9-89

DAS

28

9-89

DAS

6

9-89

DAS

28

9-89

DAS

6

9-89

DAS

28

9-89

FEB 09 2016

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Page 18

Picklist Print

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Page 19

Work Order ID: 140954

140954

Parent Item: 646.4001

646 4001

Parent Item Name: AS350 Cable Cutter System

Start Date: 1/26/2016

Required Date: 3/7/2016

Start Qty: 1.00

Required Qty: 1.00

646.9410

Manufactured No

110

Each

0.0000

1

1

646 9410

Shim

**

Ship without Shim.

16-B.16

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NOTES:

- 1 AFTER INSTALLATION, APPLY F/N 54 A/R TO FILL GAPS AND FILLET EDGES.
- 2 INSTALL F/N 14 WITH F/N 52 & 53.
- 3 3M VHB ADHESIVE TAPE .025" THICK X .50" WIDE
VENDOR: MCMASTER-CARR P/N 75935A651.
- 4 3M TAPE PRIMER 94, APPLY TO BOTH SURFACES A/R BEFORE TAPE.
VENDOR: R.S. HUGHES P/N 021200-24216.
- 5 REUSE FASTENERS FROM F/N 1.
- 6 USE WASHERS A/R AS SHIMS TO OBTAIN BEST FITMENT.
- 7 AT CUSTOMERS OPTION, INSTALL F/N 65 BY MATCH DRILLING ON TO F/N 1.
- 8 INSTALL SHIM IF OEM PROVISIONS ARE INSTALLED ON AIRCRAFT. REMOVE SHIM LAYERS TO ACHIEVE CORRECT SIZE. MATCH DRILL HOLES. USE F/N 78 SCREW IN PLACE OF F/N 17 SCREW.
- 9 NEWER INSTALLATIONS ON AIRCRAFT WITH UPDATED CANOPY MAY REQUIRE DIFFERENT LENGTH SCREWS. USE F/N 62 TO REPLACE F/N 44 & F/N 26 IN PLACE OF F/N 41 WHEN NECESSARY.

20160126

SH 140954

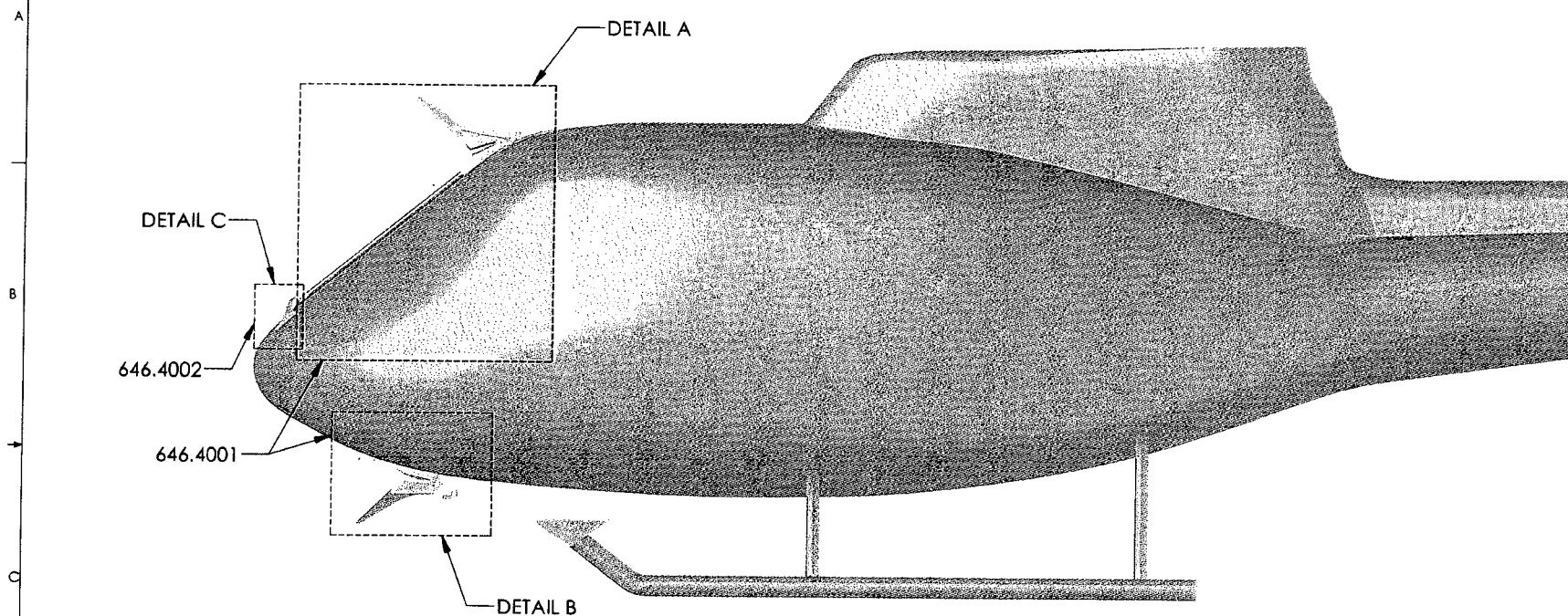
	5		5		5	78	601.3875	SCREW		
	1		1		1	77	646.9410	SHIM		
			4		4	76	601.2764	WASHER	NAS1149FH832P	
			2		2	75	601.2973	LOCKNUT	MS21042-08	
			2		2	74	601.2988	SCREW	MS27039-0813	
			2		2	73	601.2943	LOCKNUT	MS21042-3	
			2		2	72	601.3128	NUT	AN314C4R	
			2		2	71	601.3209	LOCKNUT	MS21042H4	
			4		4	70	601.2638	WASHER	NAS1149FO432P	
			2		2	69	601.2669	BOLT	AN4C7A	
			2		2	68	601.3119	CLEVIS	AN465-34R	
			2		2	67	601.3121	EYE BOLT	AN446-5A	
			2		2	66	650.9201	EYE BRACKET ASSY		
		REF	REF		REF	65	647.5701	GPS MOUNT KIT		
					2	64	601.3151	WASHER	NAS1149FO363P	
				2		63	601.2911	SCREW	MS24694553	
			24		24	62	601.2637	SCREW	MS27039-1-16	
	2		2		2	61	601.2763	BOLT	AN3-12A	
			1		1	60	646.3913	SHIM		
			4		4	59	646.3912	SHIM		
			1		1	58	646.3911	SHIM		
			4		4	57	646.3910	SHIM		
			5		5	56	600.1013	PRIMER		
		8 FT		8 FT	55	600.0129	VHB TAPE			
			1	1	1	54	600.1012	SEALANT	PR-1425 CLASS B	
			1		1	53	600.0991	MAGNOBOND 6398 PART B		
			1		1	52	600.0990	MAGNOBOND 6398 PART A		
	6		10		10	51	601.2826	BOLT	AN3-11A	
				2		50	646.3814	WIPER BRACKET		
				2		49	601.2910	SCREW	MS27039-1-18	
		2			2	48	601.1365	SCREW	MS27039-1-10	
		2			2	47	646.3719	DOUBLER		
			2		2	46	646.3718	CUSTOM WASHER		
		1			1	45	646.3717	DOUBLER		
		22	2	22	44	601.1948	SCREW	MS27039-1-19		
		2		2	43	601.1952	SCREW	MS27039-1-20		
		4		4	42	601.1956	SCREW	MS27039-1-21		
.4006	.4005	.4004	.4003	.4002	.4001	FIND #	PART #	DESCRIPTION	MATL	SPEC.

REV	DESCRIPTION	DATE	APPROVED
A	INCORPORATED ECH 02/19/03 02/19/03 02/19/03	02/19/03	P. BRAVO
B	INCORPORATED ECH 02/19/03 02/19/03 02/19/03	02/19/03	P. BRAVO
C	INCORPORATED ECH 02/19/03 02/19/03 02/19/03	02/19/03	P. BRAVO

		2	2	41	601.2829	SCREW	MS24694554
		2	2	40	601.2831	RIVET	MS20476AD5-7
		1	1	39	646.3716	GAUGE BRACKET	
		6	6	38	601.1953	SCREW	MS27039-1-12
	2		2	37	646.3715	STRUT DOUBLER	
12	36		36	35	601.2824	BOLT	AN3-5A
6	18		18	34	600.0795	NUTPLATE	MS21047-3
3	3		3	33	601.2565	RIVET	MS20470AD5-7
1	1		1	32	646.3813	STRUT BRACKET	
4	4		4	31	601.2822	BOLT	AN3-3A
2	2		2	30	646.3812	GUSSET BRACKET	
8	8		8	29	601.2564	RIVET	MS20470AD5-6
1	1		1	28	646.3714	GUSSET	
1	1		1	27	646.3610	FILLER	
3	3		3	26	601.2830	SCREW	MS24694555
2	2		2	25	601.2825	BOLT	AN3-6A
1	1		1	24	646.3811	RADIUS BLOCK	
1	1		1	23	646.3712	CLIP	
1	1		1	22	646.3711	CLIP	
8	8		8	21	601.2832	RIVET	MS20470AD5-5
14	14		14	20	601.2020	RIVET	CR3213-5-3
4	6	4	6	10	601.2823	BOLT	AN3-4A
1	1		1	18	601.2827	BOLT	AN3-13A
5	5		5	17	601.2912	SCREW	MS24694551
1	1		1	16	646.3713	GUSSET	
1	1		1	15	646.3210	SUPPORT	
1	1		1	14	646.3710	DOUBLER	
1	1		1	13	646.3110	CHANNEL	
14	10	8	53	6	601.1624	LOCKNUT	MS210421-3
16	32	18	120	16	601.1607	WASHER	MS210421-3
				10	646.3410	LH WIPER DEFLECTOR	
				9	646.3411	RH WIPER DEFLECTOR	
				8	647.7703	STRUT ASSY	
				7	647.0112	STRUT BRACKET	
				6	646.3511	STRUT	
				5	646.3510	STRUT	
2	2		2	4	646.3810	BRACKET	
				3	646.2910	DEFLECTOR	
				2	646.3001	LOWER CUTTER ASSY	
				1	646.3301	UPPER CUTTER ASSY	
X					646.4006	LOWER CUTTER FIXED PROVISIONS	
X					646.4005	LOWER CUTTER REMOVABLE PROVISIONS	
	X				646.4004	FIXED PROVISIONS KIT	
		X			646.4003	CABLE CUTTERS W/ WITHOUT FIXED PROVISIONS	
			X		646.4002	AS350 WIPER DEFLECTOR KIT	
				X	646.4001	AS350 CABLE CUTTERS KIT	

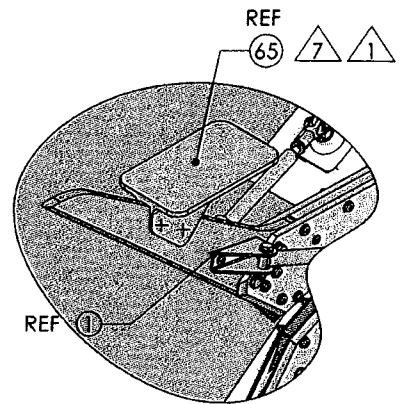
QTY	NEXT ASSY (S)	ORIGINAL DATE 08-27-06 DRAWN BY S. HUFF CHECKED BY P. BRAVO DRAWING APPROVAL P. BRAVO DATE 08-27-06 CONTRACT NO.	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 3 PLACES DECIMALS ±.010 ANGLES ±.5°	REV. C
PARTS LIST		DART 3030 ENTERPRISE CT., SUITE A AEROSPACE VISTA, CA. 92081 APICAL INDUSTRIES INC. (760)-724-5300 DBA DART AEROSPACE AS350 CABLE CUTTERS KIT SHEET 1 OF 5		

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES
 DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
 WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.

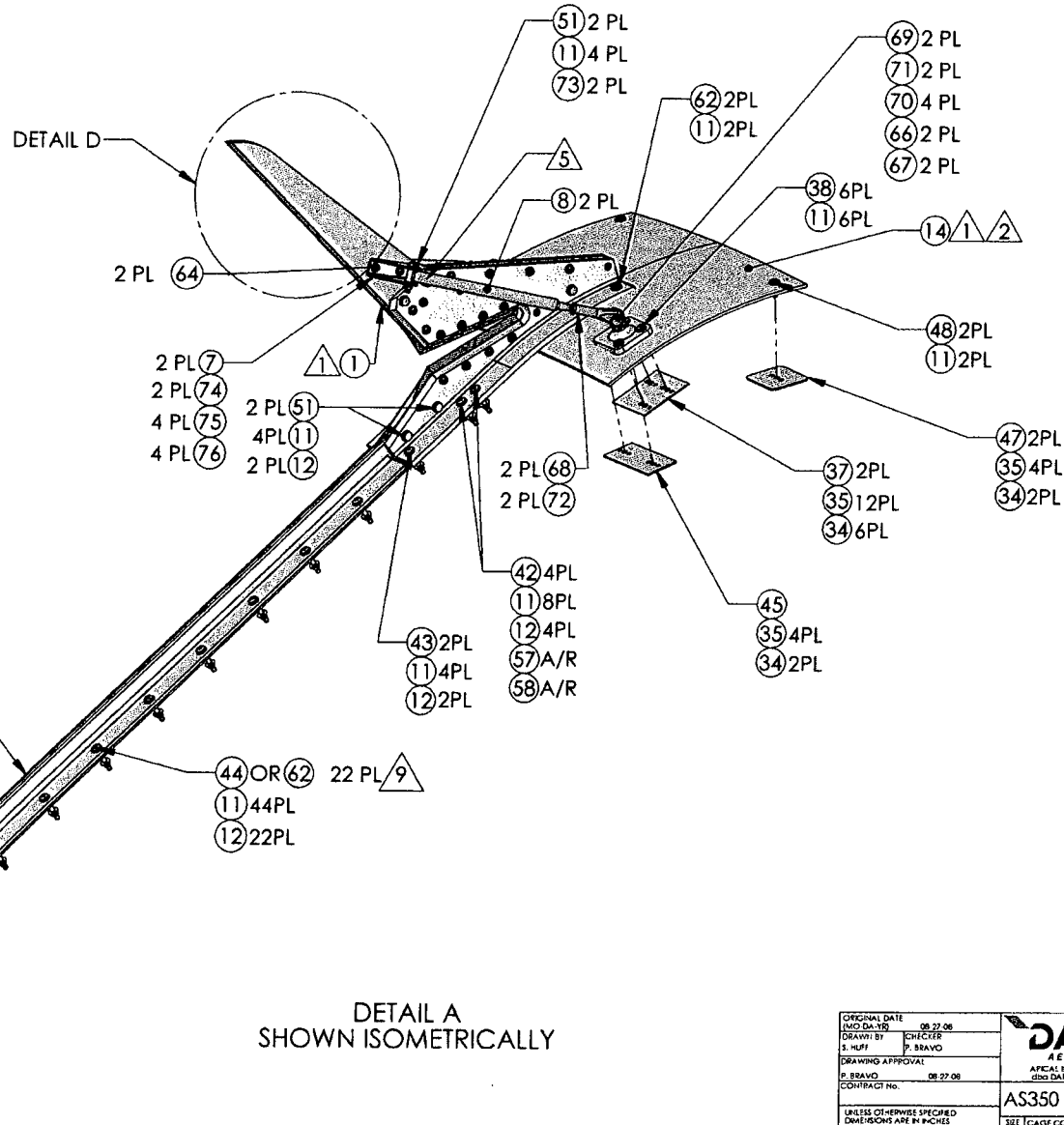


ORIGINAL DATE (MO-DA-YR) 06-27-08		 DART AEROSPACE APICAL INDUSTRIES, INC. DBA DART AEROSPACE (760)-724-5300	3030 ENTERPRISE CT. SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HUFF	CHECKED BY P. BRAVO			
DRAWING APPROVAL P. BRAVO	DATE 06-27-08			
CONTRACT No.				
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±0.10 3 PLACE DECIMALS ±0.05 ANGLES ±5°				
AS350 CABLE CUTTERS KIT				
SIZE B	CAGE CODE 07M26	DWG. NO. 646.4000	REV. C	
SCALE NONE		SHEET 2 OF 5		

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APICAL INDUSTRIES DBA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE WRITTEN PERMISSION OF APICAL INDUSTRIES DBA DART AEROSPACE IS PROHIBITED.



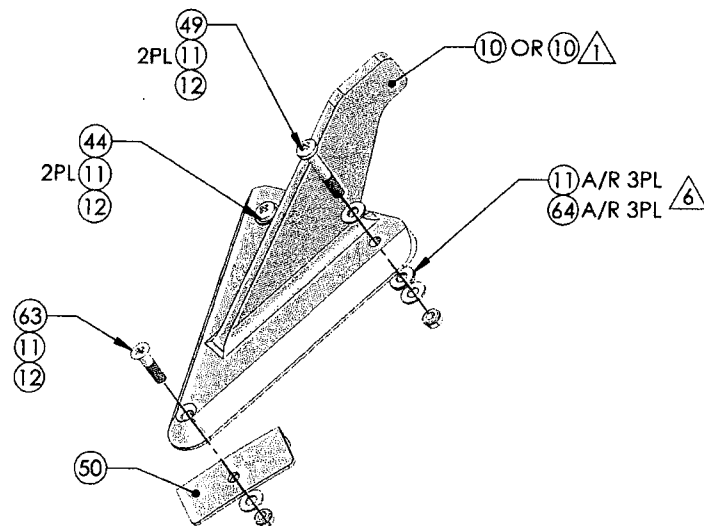
DETAIL D
TYPICAL GPS MOUNT KIT INSTALLATION



DETAIL A
SHOWN ISOMETRICALLY

ORIGINAL DATE 10/01/08		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760) 724-5300	
DRAWN BY S. HUPP		CHECKED BY P. BRAVO	
DRAWING APPROVAL P. BRAVO		DATE 08/27/08	
CONTRACT NO.			
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACE DECIMALS ±.01 3 PLACE DECIMALS ±.005 ANGLES ±.5°			
DART AEROSPACE APICAL INDUSTRIES, INC. DBA DART AEROSPACE		AS350 CABLE CUTTERS KIT	
SHEET B	CAGE CODE 07M26	DWG. NO. 646.4000	REV. C
SCALE NONE		SHEET 3 OF 5	

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF APCAL INDUSTRIES
DIA DART AEROSPACE. ANY REPRODUCTION IN PART OR WHOLE WITHOUT THE EXPLICIT
WRITTEN PERMISSION OF APCAL INDUSTRIES DIA DART AEROSPACE IS PROHIBITED.



DETAIL C
LH SHOWN EXPLODED
RH OPPOSITE

ORIGINAL DATE (MO-DA-YR) 08-27-08		3030 ENTERPRISE CT., SUITE A VISTA, CA. 92081 (760)-724-5300	
DRAWN BY S. HURT		CHECKED P. BRAVO	
DRAWING APPROVAL P. BRAVO 08-27-08		CONTRACT NO.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: 2 PLACI DECIMALS ±.010 3 PLACI DECIMALS ±.005 ANGLES ±.5°		DART AEROSPACE AS350 CABLE CUTTERS KIT SET B 07M26 DWG. NO. 646.4000 REV C SCALE NONE SHEET 5 OF 5	



APICAL INDUSTRIES, INC.
dba DART AEROSPACE

ENGINEERING CHANGE NOTICE NO.

05304

SHEET 1 OF 1

DWG NO. 646.4000

REV: C

PREPARED
BY

J. BECKER

DATE: 02/04/16

EFFECT ON DWG

☐ INC. ☒ UNINC.

DWG TITLE: AS350 CABLE CUTTERS KIT

APPROVED BY:

ENGR. *[Signature]*

MFG *[Signature]*

QC *[Signature]*

EFF.

NEXT ORDER

TRANSACTION CODES (TC):

A-ADD C-CREATE
R-REVISE D-DELETE

REASON: REVISED F/N 12.

ECR:

N/A

ACTION ITEM:

1. N/A

REFERENCE ONLY

SHEET 1, BOM IS:

12	R	601.1624	8	16	LOCKNUT	MS21042L3	
F/N	TC	PART NUMBER	4006	4005	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY				
DOCUMENTS EFFECTED:					CHANGE CATEGORY	DER REVIEW REQUIRED	
☐ PATTERN ☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM					☐ MAJOR ☒ MINOR	☐ YES ☒ NO	

